Amendments to the Claims:

1. (Currently Amended) Apparatus for converting power from a power input to an output power supply, ~~which~~ the apparatus ~~comprises~~ comprising:

a resonance converter ~~containing~~, the resonance converter comprising at least two serial coupled semiconductor switches, wherein:

the semiconductor switches comprise ~~having~~ at least one common output terminal,

the one common output terminal is connected to at least one first coil,

the first coil is connected to a first capacitor,

the first coil ~~which~~ is part of a transformer, ~~having~~

the transformer comprises a second coil connected to rectifier means, ~~which~~

the rectifier means has its output connected to output terminals, ~~where~~

a first feedback circuit ~~is connected from~~ connects one of the output ~~terminal~~ terminals to an error amplifier, ~~which~~

the error amplifier is connected to [[an]] a first input [[at]] of a control circuit, ~~which~~

the control circuit comprises an output that is connected over driver means to [[the]] an input of the semiconductor switches, ~~where the apparatus farther comprises~~

a second feedback circuit ~~where the second feedback circuit is leading~~ transmits a feedback signal from ~~at least one capacitor(s) Cp~~ the first capacitor, ~~which~~

the first capacitor is serially connected ~~in serial~~ to the first coil ~~to an input terminal~~ and to ground, ~~wherein~~

the second feedback circuit is connected to [[the]] a second input terminal of the control circuit, ~~which~~

the second input terminal is connected to at least one second capacitor, ~~which~~

the second capacitor ~~is controlling the~~ controls a switching frequency of the semiconductor switches, ~~which~~

the second feedback circuit ~~comprises a~~ transmits the feedback signal depending on [[the]] an actual change of [[the]] charge ~~over the serial resonance capacitor Cp (19)~~ of the first capacitor in each half period of switching of the first capacitor, ~~which~~ and

the feedback signal linearizes the influence of the first feedback circuit.

2. (Currently Amended) Apparatus according to claim 1, wherein the second feedback circuit is connected ~~from~~ to the ~~serial resonance~~ first capacitor ~~Cp (19) to at least one~~ through a third capacitor, ~~where~~ and the third capacitor is connected to a fourth ~~at least one further~~ capacitor that is connected to a common ground.

3. (Currently Amended) Apparatus according to claim 1, wherein the second feedback circuit ~~contains~~ comprises an inverting amplifier, ~~which~~ and an output of the inverting amplifier is connected to the second input terminal through ~~at least one~~ a capacitor of the at least one second capacitor.

4. (Currently Amended) Apparatus according to claim 3, wherein the output from the inverting amplifier is connected to a serial connection of a resistor and a further capacitor of the at least one second capacitor, ~~which~~ and the serial connection [[I]] is coupled in parallel to the ~~capacitors~~ capacitor and the further capacitor of the at least one second capacitor.

5. (Currently Amended) Method for power conversion control in serial resonance switch mode power converters operating in frequency mode at normal operation ~~where~~, the method comprising the steps of:

converting a first feedback signal, from [[the]] a power output, ~~is converted~~ via an opto-coupler to an input to a switching means, ~~wherein~~

influencing via a second feedback signal ~~is used to influence the~~ charging and discharging of at least one second capacitor ~~connected to the~~ controlling an oscillating circuit, and ~~where by~~

with increasing load, changing the mode of operation ~~is changed~~ into a charge mode control by [[a]] the second feedback signal, ~~which~~

wherein the second feedback signal is based on [[the]] an actual charging current of first serial resonant capacitors and ~~thereby~~ a change in charge in each half period of switching on the first serial resonant ~~capacitor(s)Cp,Cp'~~ capacitors.